Dr. Laura Hosman

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ACADEMIC POSITIONS

Arizona State University, Associate Professor, joint appointment in the School for the Future of
Innovation in Society and The Polytechnic School   2018-present
Assistant Professor, joint appointment in the School for the Future of Innovation in Society and
The Polytechnic School   2016-2018
Senior Sustainability Scientist, Julie Ann Wrigley Global Institute of Sustainability   2017-present
Honors Faculty, Barrett the Honors College   2017-present

California Polytechnic State University, Assistant Professor of Ethics, Public Policy, Science &
Technology (EPPST). Joint appointment in the Science, Technology, and Society (STS)
Program and the Department of Political Science   2014-2016

Illinois Institute of Technology, Assistant Professor, Political Science   2009-2014
Associate Chair, Department of Social Sciences   2011-2012

University of California, Berkeley, Ciriacy-Wantrup Postdoctoral Fellow in Natural Resource
Economics and Political Economy, Environmental Science, Policy & Management,
Department of Natural Resources   2007-2009

University of Southern California, Postdoctoral Research Fellow, Institute for Communication
Technology Management, Marshall School of Business   2006-2007

University of Southern California, Lecturer, School of Public Policy and Development   2007

EDUCATION

University of Southern California, Ph.D., *with distinction*, Political Economy & Public Policy   2006

University of Southern California, M.A., Economics   2004

University of Amsterdam, M.A., *cum laude*, International Relations, Fulbright Scholar   2000

Wheaton College, B.A., *magna cum laude*, Political Science   1997

AWARDS & FELLOWSHIPS

MIT-Solve TPrize Challenge Finalist (top 10 out of over 300 applications)   2020

PLuS Alliance Fellow   2020-2022

Tech4Islands Awards Finalist (top 6 out of 66 applications) FrenchTech Digital Festival Tahiti   2019

Global Humanitarian Award, IEEE Phoenix Section   2019

PLuS Alliance Prize for Education Innovation	2017
Distinguished Alumni Award, Fridley High School, Fridley MN	2016
Best Paper Award: Meheroo Jussawalla Research Paper Prize, Pacific Telecommunications Council (PTC) 36th Annual Conference	2014
Dean's Excellence Award for Teaching, College of Science and Letters (IIT)	2011
Outstanding Faculty Award, Interprofessionalization (IPRO) Program (IIT)	2011
Society for New Communications Research (SNCR) Excellence Award, Collaboration and Co-Creation, Academic Division, for Solar Powering Project in Haiti	2010
Tyler Environmental Prize Final Year Dissertation Fellowship (USC)	2005-2006
Urban and Global Interdisciplinary Ph.D. Dissertation Fellowship (USC)	2005
CIBEAR International Business Issues Dissertation Award (USC)	2004
Haynes Foundation Dissertation Fellowship (USC)	2003-2004
Urban Studies Strategic Theme Summer Fellowship (USC)	2003
Haynes Foundation Intermediate Graduate Fellowship (USC)	2002-2003
Venice International University Tuition Scholarship (VIU, Venice, Italy)	2001
Fulbright Scholarship for graduate studies in The Netherlands	1999-2000

PEER REVIEWED JOURNAL ARTICLES & CHAPTERS

Hosman, L., Gomez Zermeno, M. G., & Aleman de la Garza, L. (2020). SolarSPELL Assessment: Impact of a Solar-Powered Digital Library as a Teaching-Learning Resource on Climate Change. *Sustainability*, 12, 6636, doi:10.3390/su12166636 https://www.mdpi.com/2071-1050/12/16/6636

Hosman, L., Walsh, C., Perez Comisso, M., & Sidman, J. (2020). Building online skills in offline realities: The SolarSPELL initiative. *First Monday*, Vol. 25 No. 7, July. https://firstmonday.org/ojs/index.php/fm/article/download/10839/9559, doi: http://dx.doi.org/10.5210/fm.v25i7.10839

Hosman, L. and Pérez Comisso, M.A. (2020). How do we understand "meaningful use" of the internet? Of divides, skills and socio-technical awareness. *Journal of Information, Communication, and Ethics in Society*, 18(3), 461-479, https://doi.org/10.1108/JICES-05-2020-0055

Hosman, L., & Jacobs, G. (2018). From Active Learning to Taking Action: Incorporating Political Context into Project-Based, Interdisciplinary, International Service Learning Courses. *Journal of Political Science Education*, 14(4) 473-490.

Hosman, L. (2018). Impatience as a Virtue: Addressing Persistent ICT-in-Education Challenges in Small Developing Countries, 169-193. In I. Lubin (Ed.), *ICT-Supported Innovations in Small Countries and Developing Regions*. Switzerland: Springer International Publishing.

Hosman, L., & Armey, L.E. (2017). Taking Technology to the Field: Hardware Challenges in Developing Countries. *Information Technology for Development*, 23(4) 648-667. DOI: 10.1080/02681102.2017.1363028

Armey, L. E. & Hosman, L. (2016). The Centrality of Electricity to ICT use in Low-Income Countries. *Telecommunications Policy*, 40(7) 617-627.

Vergine, D., & Hosman, L. (2015). Designing Technology for Inclusive Growth. In Dutta, S., Geiger, T. & Lanvin, B. (Eds.) *The Global Information Technology Report 2015: ICTs for Inclusive Growth*. Geneva: World Economic Forum. Pp. 93-99. Available at http://www3.weforum.org/docs/WEF_Global_IT_Report_2015.pdf

Hosman, L. (2014). International Service-Learning Partnerships: Lessons of Successes and Challenges that Defy Simple Categorization. *Partnerships: A Journal of Service Learning and Civic Engagement,* 5(1) 24-50. Available at http://libjournal.uncg.edu/prt/article/view/725

Hosman, L. & Howard, P.N. (2014). Telecom Policy Across the Former Yugoslavia: Incentives, Challenges, and Lessons Learned. *Journal of Information Policy*, 4, 67-104. Available at http://jip.vmhost.psu.edu/ojs/index.php/jip/article/view/156/112

Hosman, L. & Cvetanoska, M. (2013). Teachers, Technology, & Training: Combining Theory with Macedonia's Experience. *International Journal of Education and Development using ICT*. 9(3) 28-49. Available at http://ijedict.dec.uwi.edu/viewissue.php?id=36

Hosman, L. & Baikie, B. (2013). Solar Powered Cloud Computing Datacenters. *IEEE IT Professional*, March-April, 15-21.

Hosman, L., & Fife, E. (2012). The Use of Mobile Phones for Development in Africa: Top-Down-Meets-Bottom-up Partnering. *The Journal of Community Informatics*, 8(3). Available at http://ci-journal.net/index.php/ciej/article/view/560/938

Hosman, L. (2011). Making the Transition from Pilot to Scale: Examining Sustainability and Scalability Issues in a Public-Private Telecenter Partnership in Sri Lanka. *Information Technology for Development*, 17(3) 232-248.

Hosman, L. (2010). Policy Considerations from a Nationwide IT-in-Education Initiative: Macedonia Connects. *Journal of Information Technology and Politics*, 7(4), 369-383.

Hosman, L. (2010). Policies, Partnerships, and Pragmatism: Lessons from an ICT-in-Education Project in Rural Uganda. *Information Technology for International Development*, 6(1), 48-64. Available at http://itidjournal.org/itid/article/view/488/213

Hosman, L. (2010). A National ICT-in-Education Initiative: Macedonia Connects. In Kamel, S. (Ed.) *E-Strategies for Technological Diffusion and Adoption: National ICT Approaches for Socioeconomic Development*. Hershey, PA: IGI Global. Pp. 1-16.

Hosman, L. (2009). Dividing the Oils: Dynamic Bargaining as Policy Formation in the Nigerian Petroleum Industry. *Review of Policy Research: The Politics and Policy of Science and Technology*, 26(5), 609-632.

Hosman, L. (2009). Dynamic Bargaining and the Prospects for Learning in the Petroleum Industry: The Case of Kazakhstan. *Perspectives on Global Development and Technology*, 8(1), 1-25.

Hosman, L., Fife, E., & Armey, L. E. (2008). The Case for a Multi-Methodological, Cross-Disciplinary Approach to the Analysis of ICT Investment in the Developing World. *Information Technology for Development*, 14(4), 308-327.

Hosman, L. & Fife, E. (2008). Improving the Prospects for Sustainable ICT Projects in the Developing World. *International Journal of Media and Cultural Politics*, 4(1), 51-70.

Fife, E., Hosman, L., & Pereira, F. (2008). Governmental and Cultural Factors in Broadband Adoption. In Dwivedi, Y.K., Papazafeiropoulou, A., & Choudrie, J. (Eds.) *Handbook of Research on Global Diffusion of Broadband Data Transmission: Factors Affecting the Adoption, Usage and Economics of Broadband*. Hershey, PA: IGI Global.

Hosman, L. & Fife, E. (2007). Public Private Partnerships and the Prospects for Sustainable ICT Projects in the Developing World. *Journal of Business Systems Governance and Ethics*, 2(3), 53-66. Available at http://www.jbsge.vu.edu.au/issues/vol02N03.html

PEER REVIEWED (TECHNICAL) CONFERENCE PROCEEDINGS*
*In technical fields like computer science and information systems, papers in peer-reviewed conferences are accepted as **equal** in value to high-quality scholarly articles.

Linzy, K & Hosman, L. (2018). The SolarSPELL Offline Digital Library. Presented at WLIC-IFLA 2018 conference, published under creative commons in the IFLA (International Federation of Libraries Association) institutional repository, at: http://library.ifla.org/2106/

Baikie, B. & Hosman, L. (2011). Green Cloud Computing in Developing Regions: Moving Data and Processing Closer to the End User. *Proceedings of the 2011 Technical Symposium at ITU Telecom World (ITU WT)*, Geneva, Switzerland, IEEE Press, 24-28.

Hosman, L. & Cvetanoska, M. (2010). Technology, Teachers, & Training: Combining Theory with Macedonia's Experience. *Proceedings of the 4th International Conference on Information and Communications Technology and Development (ICTD), London, England*. ACM Press.

Hosman, L. (2008). A Pilot Takes Off: Examining Sustainability and Scalability in the Context of a Sri Lankan Public Private Partnership Telecenter Project. *Proceedings of the 19th Australasian Conference on Information Systems*, Christchurch, New Zealand. Available at http://www.bsec.canterbury.ac.nz/acis2008/Papers/acis-0074-2008.pdf

Fife, E., Hosman, L., and Pereira, F. (2008). Public-Private Partnerships and Development: A New and Effective Model? *Proceedings of the 17th Biennial International Telecommunications Society Conference* in Montreal, Canada.

PEER REVIEWED WORKING PAPER PUBLICATIONS

Hosman, L. and Howard, P. N. (2010). Information Policy and Technology Diffusion: Lessons from Bosnia, Croatia, Macedonia, Montenegro, Serbia and Slovenia. World Information Access

Project Working Paper #2010.1. Seattle: University of Washington. Available at
http://www.wiaproject.org/index.php/publications/working-papers

Hosman, L. (2009). Creating a Culture of Use in ICT for Education and Development Projects: The Case
of Macedonia Connects. The University of North Carolina, Greensboro, McDowell Research
Center for Global IT Management Working Paper Series.

WORKS IN PROGRESS

SolarSPELL Health and Education: Global Solutions with Local Impacts

It Takes a Team: Team-Based Courses and the Transformative Effect of Service Learning Opportunities

Creating Global Citizens: Student Experiences through Innovations for the Developing World

OTHER PUBLICATIONS & POLICY PAPERS

Hosman, L., (2020) Accesso a herramientas de aprendizaje digital más importante que nunca. Sentido
Común. (Opinion piece / OpEd) Published 8/15/2020. Available at:
https://www.sentidocomun.com.mx/articulo-contribuidores-cs.phtml?id_contrib=1798

Hosman, L., Ross, H.M., Petersen, S., Jalaghi, A., & Andrusaitis, K. (2020). Developing an Offline,
Digital Library for South Sudan – The SolarSPELL Health: Nursing and Midwifery Library. *The
South Sudan Medical Journal* (13)4, 153-155. Available at
http://www.southsudanmedicaljournal.com/assets/files/Journals/vol_13_iss_4_nov_20/Solarspell-
Final.pdf

Hosman, L. (2014). Emerging Markets: Top ICT4D Hardware Challenges. San Francisco: Inveneo.
Report commissioned by USAID and ARM, Ltd. Available at http://www.inveneo.org/wp-
content/uploads/2014/07/FINALTop-ICT-Hardware-Challenges-White-Paper.pdf

Baikie, B. & Hosman, L. (2011, September). The Green Cloud: A Broadband Springboard? Appropriate
Hosting Infrastructure Improves Broadband Economics. *Intermedia*, 39 (4), 39-43.

Hosman, L. & Fife, E. (2011, May). Innovative Partnerships? Creating the Right Conditions for Mobile
Growth in Africa. *Intermedia*, 39 (2), 20-25.

Hosman, L. (2011, February 28). Teacher Training on ICT Cannot be a One-Time Event. Educational
Technology Debate (sponsored by *info*Dev and UNESCO). Available at:
https://edutechdebate.org/teacher-training/teacher-training-on-ict-cannot-be-a-one-time-event/

UN E-Government Survey 2008: From E-Government to Connected Governance. New York: United
Nations Department of Economic and Social Affairs Division for Public Administration and
Development Management. Senior researcher and translator: French and Dutch, with focus on
African Government Web Sites.   February, 2008

Los Angeles County WiFi Feasibility Report. Prepared for the Los Angeles County Board of Supervisors
and the County Information Office by the Center for Telecom Management, University of

Southern California. Principal Researcher. Available at
lacounty.info/omd/q1_2008/cms1_086410.pdf   October, 2007

California's Telecommunications Strategy: Business and Management Challenges Strategic Vision Paper.
Prepared for the Chief Information Officer, State of California, by the Collaborative on E-
Governance, University of Southern California. Contributing author.   March, 2007

Global E-Government Readiness Report 2005: From E-Government to E-Inclusion. New York: United
Nations, 2005. Senior researcher and translator: French, Italian, and Dutch. Main researcher for
African Government Web Sites.   December, 2005

United Nations Global E-Government Readiness Report 2004: Towards Access for Opportunity. New
York: United Nations, 2004. Researcher, translator: French, Italian, and Dutch.   November, 2004

FUNDING: GRANTS & GIFTS

FUNDED (AT FULL AMOUNT UNLESS OTHERWISE NOTED)

S. Rex & Joan T. Lewis Family Foundation. Gift to support development of an Additional
Language version of SolarSPELL's Offline Training Course to support Train-the-Trainer
trainings locally. (PI: $50,000)   2022

UNHCR (United Nations High Commission for Refugees): Funding for pilot program to
introduce SolarSPELL offline digital libraries to two refugee camps in Ethiopia. Project
included: localizing the content of the SolarSPELL libraries; training teachers and teacher-
trainers; creating new curriculum, teacher guides, and modules to complement LEGO
Foundation's "Learning Through Play" (LtP) content on the SolarSPELL libraries and
introduce this content to local refugee communities; conducting impact evaluation and
reporting. (61% of $417,996)   2021-2022

Google exploreCSR: 2nd year of funding from Google Research funding to host a workshop at
ASU introducing undergraduates from underrepresented minority groups to graduate-level
study in computer science research. Workshop focus is on doing impactful work through
computer science ("computing for good") and to provide two REUs (Research Experiences
for Undergraduates) in Summer 2022 (PI: $29,000)   2021-2022

TensorFlow: Add-on funding (to Google exploreCSR grant above) to support additional outreach
activities focused on Machine Learning tools and software, as a hands-on activity for learning
during exploreCSR workshop, to widen access to historically marginalized groups in
computer science (PI: $10,000)   2021-2022

Experimental Humanities Collaborative Network (EHCN). Funding to assist with SolarSPELL
Build Day and to incorporate discussion of technology and growing inequality vis-à-vis our
shared future. (PI: $2,000)   2021

Arizona Community Foundation (EmpowerKids South Sudan). Gift to support creation of Offline
Training Courses to support training on the SolarSPELL Nursing and Midwifery and
Biomedical Technology offline digital libraries (PI: $116,842)   2021

S. Rex & Joan T. Lewis Family Foundation. Gift to support researching and manufacturing prototype of SolarSPELL hardware with recycled plastics and to support creation of educational content (lesson plans, learning modules, etc.) focused on plastics, recycling, and sustainability to add to SolarSPELL offline educational library (PI: $50,000)   2021

EBSCO. Gift to support SolarSPELL general operations (PI: $25,000)   2021

Marshall Islands Offline Digital Libraries for Primary Schools. Project to provide SolarSPELL Offline Digital Library to remote, offline Marshall Islands schools in the Kwajalein Atoll (PI: $56,100)   2021

Arizona Community Foundation (Empower Kids South Sudan). Gift to create libraries and/or carry out SolarSPELL-related projects on: improving the SolarSPELL library user interface; creating a digital version of SolarSPELL's train-the-trainer training; and creating an agricultural library for East Africa (PI: $212,000)   2020-2021

Google exploreCSR: Google Research funding to host a workshop at ASU introducing undergraduates from underrepresented minority groups to graduate-level study in computer science research. Workshop focus is on doing impactful work through computer science (PI: $18,000)   2020-2021

Vogel Family Foundation: Gift to support SolarSPELL Refugee Camp School Libraries (PI: $10,000)   2020

MIT Tprize: Seed funding to bring SolarSPELL to Latin America (PI: $5,000)   2020

S. Rex & Joan T. Lewis Family Foundation. Gift to support SolarSPELL general operations. (PI: $50,000)   2020

Krumwiede Lewis Foundation. Gift to support SolarSPELL general operations (PI: $50,000)   2020

Arizona Community Foundation (Empower Kids South Sudan). Gift to create libraries and/or carry out SolarSPELL-related projects on: a Nursing and Midwifery Library for East Africa; Internship program for Bridge2Rwanda Scholars; a Library localized for Gambela Refugee camp schools in Ethiopia; a Sustainability Research project focused on reusing plastic waste; a digital library for Arizona Tribal areas (PI: $270,000)   2020

Global Consortium for Sustainability Outcomes (GCSO) to develop sustainability curriculum for Pacific Islands and pilot curriculum and training in Fiji (PI: 47% of $86,000)   2019-2020

Krumwiede Lewis Foundation. Gift to enable SolarSPELL work within Arizona, both at Tonto Creek Camp and to initiate collaborative ventures with Tribal Communities (PI: $15,000)   2019

S. Rex & Joan T. Lewis Family Foundation. Gift to enable field-related activities related to sustaining, deploying and impact-measuring for SolarSPELL digital libraries project. Will also enable launching of SolarSPELL partnership with Tonto Creek Camp in Arizona, as well as travel and training in Vanuatu and Samoa. (PI: $50,000)   2019

Arizona Community Foundation (Empower Kids South Sudan). Gift to carry out SolarSPELL offline digital library pilot project at three primary schools in Kakuma Refugee Camp, to serve South Sudanese living in Kenyan refugee camp. (PI: $60,000)   2019

Global Consortium for Sustainability Outcomes Proposal Concept Development grant. Grant to carry out workshop to further develop relationship with consortium partners, and to develop a funding proposal for submission to external agency. (PI: $10,000)   2018

Arizona Community Foundation (Empower Kids South Sudan). Grant to establish Juba Girls Schools as SolarSPELL Center of Excellence in Juba, South Sudan. Enables content creation to enhance train-the-trainer model, on-site teacher training, establishment of SolarSPELL Center, and establishment of SolarSPELL student club. Supports two interns to provide ongoing training and support, locally. (PI: $180,000)   2018-2020

S. Rex & Joan T. Lewis Family Foundation. Grant to enable field-related activities related to sustaining, deploying and impact-measuring for SolarSPELL digital libraries project. Will also enable launching of SolarSPELL partnership with Camp Tonto Creek in Arizona, as well as travel and training in Vanuatu and Samoa. (PI: $50,000)   2018

Arizona Community Foundation (Empower Kids South Sudan). Grant to create East Africa version of SolarSPELL digital library, as well as to provide multiple training workshops on-site in Kigali to multiple constituents: Rwandan Board of Education, Rwandan teachers South Sudanese teachers, Peace Corps volunteers, and Bridge2Rwanda scholars. Grant also funds development of back-end/database for library, Version 1 of East Africa library, and piloting library in up to 60 schools. (PI: $240,000)   2017-2019

S. Rex & Joan T. Lewis Family Foundation. Grant to enable field-related activities related to deployment and impact-measurement for SolarSPELL digital libraries project. Will enable travel and training in Vanuatu and Samoa. (PI: $50,000)   2017

KEEN Professorship. Mini-grant to develop, implement and disseminate Entrepreneurial Mindset (EM) content within project-based course at ASU (EGR 317 Humanitarian Engineering Projects II and HON 394 Design for the Developing World II). Enabled prototyping for three project-focused teams, establishment of an Ethics Roundtable, and for multiple guest experts and judges to travel and come to the class. ($12,000)   Jan – May 2017
KEEN Professorship. Received grant second time ($12,000)   Aug – Dec 2017
KEEN Professorship. Received grant third time ($22,000)   Jan – May 2018

CPConnect Grant (funded by Boeing), & Baker & Koob Learn By Doing Grant. SolarSPELL Project. To fund the building of SolarSPELL libraries on Cal Poly's campus and travel for students to carry out training on using the libraries in the Pacific Islands (PI: $10,000)   2016-2017

VentureWell (formerly National Collegiate Inventors and Innovators Alliance (NCIIA)) Co-Principal Investigator. Sustainable Vision Grant to promote Entrepreneurship and Innovation among Engineers Without Borders Group and Center for Entrepreneurship and Innovation on Cal Poly's campus ($10,000)   2015-2016

Center for Expressive Technologies (CET). Co-Principal Investigator. Digital Storytelling for Community Empowerment at Cal Poly and Beyond. Project to foster engaged, cross-disciplinary collaboration among three Cal Poly Science, Technology and Society (STS)

faculty, while enhancing hands-on Learn-By-Doing activities for their students through documentary-style filmmaking, focused on questions of climate change and technology in society and in schools, on-location in Vanuatu and Micronesia. (Co-PI: $6,000)   2015-2016

Pacific Telecommunications Council. Principal Investigator. "Solar Powered Digital Library Kit for Remote Pacific Island Schools." To design, develop, and deploy 50 solar powered digital library kits with Peace Corps volunteers across remote, rural, Pacific Island schools. (PI: $40,000)   Jan 2015-Nov-2015

Information Society Innovation Fund Asia (isif.asia). Co-team lead. "Chuuk State Solar Server Educational Hub." Design & deployment of solar-powered data center in Chuuk, FSM, to meet Department of Education's digital information needs. (Co-PI: $30,000)   Dec 2013-Dec 2014

United States Agency for International Development (USAID) & ARM, Ltd. "Increasing Community Engagement Through ICT." Lead Researcher. Fixed Obligation Grant No. AID-OAA-F-13-00071 (Consultant: $40,000 of $110,000)   Oct 2013-Apr 2014

Information Society Innovation Fund Asia (isif.asia). Co-team lead. "PISCES Project: Pacific Island Schools Connectivity, Education, & Solar Project—Phase II: Project Expansion." Expanding Solar Computer Labs, Connectivity, & Technical Skills Building to three additional lagoon island schools in Chuuk, FSM (PI: $30,000)   2013

Internet Society (ISOC) Community Grants Programme and Information Society Innovation Fund Asia (isif.asia). Principal Investigator. "Connecting the Chuuk Women's Council." To set up a computer lab in a Women's Center and initiate training for technology use. (PI: $8,000)   2013

Google Inc., Pacific Telecommunications Council (PTC), & Internet Society (ISOC). Principal Investigator. "PISCES Project: Pacific Island Schools Connectivity, Education, & Solar Project." Led team of 11. Designed and carried out Long Distance WiFi and Solar Powering workshop for students from across Northern Pacific islands at University of Guam. Continued work in Chuuk, installing Solar Computer Lab and establishing long-distance connectivity to Udot island in Chuuk lagoon (FSM). (PI: $85,686)   2012- 2013

IEEE Foundation. Principal Investigator: "Solar Transformation for Haitian Education," IIT Empowering Haiti. Enabled deployment of 2.4 KW Solar Powering System at Primary School in Lascahobas, Haiti. Led team of 10. (PI: $17,000)   2011- 2011

Pacific Telecommunications Council. Principal Investigator: "Regional Renewable Energy ICT Policy Assessment Study: Focus on Five Pacific Island Nations: Palau, Guam, Federated States of Micronesia, Fiji, and Vanuatu." (PI: $27,500)   2011-2013

Internet Society (ISOC) Community Grants Programme. Principal Investigator: "Connecting the Community of Lascahobas, Haiti to the Internet." Enabled solar-powered long-distance WiFi deployment to Primary School in Lascahobas, Haiti. Led team of 10. (PI: $10,000)   2011- 2012

NSF. Consultant, "Human Centered Computing: Information Access, Field Innovation, and Mobile Phone Technologies in Developing Countries," National Science Foundation award IIS-0713074, Philip N. Howard, Principal Investigator ($10,000)   2008-2010

University of North Carolina McDowell Research Center for Global IT Management Grant. Principal Investigator: Fieldwork research for *Macedonia Connects* project (PI: $5,000)   2008

Association for Information Systems (AIS)-Microsoft Unlimited Potential Grant. Principal Investigator: Research, monitoring and evaluation issues of ICT-for-development project *EasySeva* in Sri Lanka (PI: $5,000)   2007-2008

GRANTS APPROVED BUT NOT YET FUNDED

Department of Defense US Pacific Command (PACOM). Offline Digital Libraries: Education and Training for Disaster Preparedness, Response, and Recovery (Fiji) (PI: $376,000)

Wallis and Futuna Education Department: To localize (in French language) the SolarSPELL offline digital library for Wallis and Futuna, providing local teacher and train-the-trainer training and conducting impact evaluation (PI: $230,000)

GRANTS SUBMITTED BUT NOT FUNDED

USAID Development Innovation Ventures Grant (Stage 3: Transitioning to Scale). To build information literacy and digital literacy, working in partnership with Peace Corps, in Education, Health, and Agriculture Sectors across 13 Sub-Saharan Countries over 3 years, utilizing the SolarSPELL offline digital library. (PI: $15,000,000)   2021

Google Research AIR (Advancing Inclusive Research): Award to utilize qualitative methodology to explore students' perceptions of inclusion, collaboration, effectiveness, and overall value of participating in exploreCSR "computing for good" workshop aimed at exposing historically underrepresented students to computer science research (workshop itself *was* sponsored by Google Research). (Principal Investigator: 100% of $60,000)   2021-2022

Google.org Impact Prize: Funds to develop Thunderbird for Good's Women's Entrepreneurship program: Dreambuilder, for use offline on the SolarSPELL digital library in Peru, Chile, and Arizona. Advanced to third round of competition. (Principal Investigator: 50% of $2,000,000)   2021-2022

Fred Morgan Kirby Impact Prize for Scaling Social Impact: Prize to support most innovative start-up, for operational costs (PI: 100% of 100,000)   2021

NetGain Small Grants Fund to advance the public interest in the digital age. Proposal to build information literacy and digital literacy skills offline, in order to counter misinformation globally, particularly among new and nascent internet users. (PI: 100% of 100,000)   2021

ASU Women and Philanthropy Grant Application: Grant to fund finalization and in-field implementation of SolarSPELL Biomedical Engineering Technician (BMET) Library. Advanced to Final Round, top 10% of proposals. Principal Investigator: 100% of $99,000) 2020-2021

Creating Hope In Conflict: A Humanitarian Grand Challenge: Grant to fund finalization and in-field implementation of SolarSPELL Nursing and Midwifery Library in South Sudan (PI: 100% of $185,000)   2020-2021

Audacious Project: Proposal to fund scaling SolarSPELL to 30 Peace Corps countries in 5 years. (PI: 100% of $15.5 Million) Application made it to Round 2, representing top 10% of proposals. 2020

Fred Morgan Kirby Impact Prize for Scaling Social Impact: Prize to support most innovative start-up, for operational costs (PI: 100% of 100,000) 2020

Women in Global Health: Build Back Better Start-Up Innovation Challenge, entered Nursing and Midwifery Library (PI: 100% of $10,000) 2020

Alfred P. Sloan Foundation: Proposal to fund Wikipedia for Schools Development and maintenance at ASU, for use by SolarSPELL and all other offline digital libraries (PI, 100% of $490,000) 2020

Creating Hope in Conflict: A Humanitarian Grand Challenge (Pooled funding from Grand Challenges Canada, USAID, UKAID, and Netherlands Foreign Affairs) SolarSPELL Health Libraries in South Sudan. Principal Investigator: 100% of $250,000 CAD) 2019

Coca Cola Foundation. Submitted proposal (through ASUF) for Coca Cola to fund SolarSPELL general operating costs (Principal Investigator: 100% of $216,230) 2019

New Earth Foundation. Submitted proposal (through ASUF) for general operating costs (Principal Investigator: 100% of $100,000) 2019

DRK Foundation. Submitted proposal (through ASUF) for funding consideration. 2019

Expo Dubai 2020. Submitted proposal (through ASUF) for share of $100,000 2019

Misk Grand Challenge to bring SolarSPELL to Palau and pilot new teaching methods (100% of $100,000) 2018

Global Consortium for Sustainability Outcomes (GCSO) to develop sustainability curriculum for Pacific Islands and pilot curriculum and training in Fiji (90% of $125,000) 2018

Cisco Global Problem Solver Challenge (Indeterminate Amount) 2018

Sign On for Literacy Challenge (100% of $25,000 prize) 2018

Vodafone Wireless Innovation Project: ASU Education for Humanity: Powered by SolarSPELL (60% of $300,000) 2018

NSF ChangeMakers: Cultivating Culturally Engaged Undergraduate Chief Science Officers. Co-Pi. (2.5% of $1.8M) 2017

LYRASIS Catalyst Grant. DL4D: Digital Libraries for Development (100% of $40,000) 2017

Pacific Telecommunications Council. SolarSPELL: Expanding Access to Libraries at Remote Pacific Island Schools with the Solar Powered Educational Learning Library. (100% of 40,000) 2015-2016

Elsevier Grant for Innovative Libraries in Developing Countries. Modernizing, Digitizing, and
    Opening a regional library at the EFACAP school in Lascahobas, Haiti. (100% of $37,000)   2012

Grants Submitted and Under Review

PUBLIC OUTREACH & ENGAGEMENT: SOLARSPELL-RELATED WORKSHOPS, TRAININGS, TRAVEL, BUILD DAYS, & DEMO'S

SolarSPELL Training for Peace Corps Volunteers & Local Teachers. Organized and led 1-3 day trainings
    for Peace Corps Volunteers and their local counterparts on how to use, introduce, and teach with
    and about the SolarSPELL Digital Library. ****Brought Undergraduate Students along on most
    of these trips, following a project-based semester class. On ALL such trips I lined up
    additional educational activities, political, public & private sector meetings, & partnered
    work with local cultural organizations to maximize students' experience.****

Fiji	Jul 2018, Aug 2019
Comoros	Sep 2018, Sep 2019, Dec 2019
Rwanda	Mar 2018
Tonga	Dec 2016
Samoa	June 2016, May 2017, May 2018
Federated States of Micronesia (FSM)	Aug 2015, July 2016, July 2017
Vanuatu	Sept 2015, May 2017, Oct 2018, Oct 2019
Chuuk State, FSM (for Chuuk DoE Employees)	Nov 2015

SolarSPELL & Library Lab Training
    Organized and executed a team-led 2-day training workshop for teachers and administrators from
    Rwanda and South Sudan on both the SolarSPELL digital library and the Solar Library Lab.
    Included three ASU students and two ASU librarians.
    Kabuga, Rwanda   Jan 2018

Information Literacy & Content Curation Workshop
    Organized and executed a team-led 5-day training workshop for 37 Bridge2Rwanda scholars on
    information literacy, scholarly research, copyright, and content curation. Included three ASU
    students and two ASU librarians.
    Kabuga, Rwanda   Jan 2018
    One-day content curation workshop for ASU students, Tempe Campus (25 attendees)   Mar 2018
    Content Curation workshop for graduate students at Tec de Monterrey (MX) for
    curation of Spanish Language Library/Mexico Version (held digitally, over Zoom)   Nov 2020

On-Site SolarSPELL Build Days
    Port Vila, Vanuatu (Featured Hands-On Activity at National ICT Days Conference)   May 2017
    Nuku'alofa, Tonga   Dec 2016

Organized Digital Storytelling Workshop for Creating Content for SolarSPELL
    One-Day Workshop at University of Auckland, Auckland NZ   Dec 2016
    Two-Day Workshop with Further Arts Cultural Organization, Nuku'alofa Tonga   Dec 2016

Organized & Co-Hosted Hackathon for SolarSPELL with Hayden Libraries. Workshop with 14 librarians, five students, and one faculty member, to fast-track Content, Curation, and Back-End Website work on SolarSPELL   Oct 2016

SolarSPELL Appropriate Technology Workshop and Build Day. Organized and led on-campus workshop for students (and university faculty, staff, community members, and high-school students in some cases) on appropriate technologies for the developing world, *and* built SolarSPELL digital libraries

  Arizona State University, Poly Campus: <u>Built 50 libraries</u> (during COVID) Nov 2021
  Arizona State University, Poly Campus: <u>Built 60 libraries</u> (during COVID) Mar 2021
  Arizona State University, Poly Campus: <u>Built 25 libraries</u> (during COVID) Nov 2020
  Arizona State University, Poly Campus: <u>Built 75 libraries</u>. Nov 2019
  ASU, EMERGE Festival, Tempe Campus: <u>Built 60 libraries</u>. Mar 2019
  Arizona State University, Poly Campus: <u>Built 75 libraries</u>. Nov 2018
  Arizona State University, Poly Campus: <u>Built 75 libraries</u>. Apr 2018
  Arizona State University, Poly Campus: <u>Built 150 libraries</u>. Included high school students from ASU Prep, and East African Bridge2Rwanda Scholars Oct 2017
  Arizona State University, Poly Campus: <u>Built 100 libraries</u>. Included high school students from ASU Prep Apr 2017
  Cal Poly, San Luis Obispo, CA: <u>Built 50 libraries</u>. Included students from classes in multiple disciplines, ranging from Liberal Arts and Engineering Studies, to English. May 2016
  Cal Poly, San Luis Obispo, CA: <u>Built 30 libraries.</u> Co-Hosted with Engineers Without Borders and VentureWell Oct 2015

Public Outreach: Booths or Display Tables with Demos & Live Explanations
  Digital Festival Tahiti Oct 2019
  International Conference of Indigenous Archives, Libraries, and Museums, Calif. Oct 2019
  US Global Leadership Coalition Expo, Phoenix AZ May 2019
  Sustainability Solutions Celebration, Phoenix AZ Feb 2018
  Pacific Education Conference, Palau Jul 2017
  Society for International Development, Washington DC May 2017, May 2019
  ASU Night of the Open Door (with School of Earth and Space Exploration) Feb 2017
  ASU Day at the Capitol Feb 2017, Feb 2018
  Learning Innovation Showcase, ASU Jan 2017

  Innovation Showcase, ASU (Poly Campus) Dec 2016, Apr 2017, Dec 2017
  Homecoming, ASU Oct 2016
  President's Forum Oct 2016
  Engineering Expo, Cal Poly May 2015
  Booth at San Luis Obispo Maker Faire, Cal Poly April 2015

CONFERENCE PRESENTATIONS & INVITED TALKS

Islands in the Stream: Providing access and building information skills in and among the diverse island societies of the Pacific. IEEE Summit on Communications Futures. Virtual and Honolulu, HI
  Jan 2022

SolarSPELL: Invited talk at CARE International Digital Innovation Talks. Global CARE staff invited to online talk.   Jan 2022

Gender and climate security in the Indo-Pacific: How an offline digital library can inform, build skills, and empower. Invited talk at the Pacific Forum: Advancing Women, Peace and Security in the Indo-Pacific   Sep 2021

SolarSPELL case study illustrating scaling up. Invited talk at USAID-organized Session: Development, Research, and Innovation Virtual Engagements (DRIVE) Convening   Sep 2021

Digitally empowering women and girls, offline. WomenConnect Challenge Steps to Success Series: Getting to the Core of Actionable Ways to Close the Gender Digital Divide: Cultivating Women's Confidence. USAID Digital Frontiers Series talk.   May 2021

The SolarSPELL Initiative at ASU and involving Lifelong Learners. Invited talk (in-person) at Mirabella at ASU   Apr 2021

La historia y los antecedentes de SolarSPELL (talk given in Spanish) Líderes del mañana conferencia, Instituto Tecnológico y de Estudios Superiores de Monterrey   Mar 2021

When Offline is Better than Online / "Offline Internet." Invited talk at GigLibraries.net "Libraries in Recovery" series.   Feb 2021

Overview of the SolarSPELL initiative. Invited talk at the Department of Education, Instituto Tecnológico y de Estudios Superiores de Monterrey   Sep 2020

Technology and Innovation Policy for Island Sustainability: SolarSPELL in Fiji. Invited talk at University of Delaware, Biden School of Public Policy and Administration's Island Policy Lab & United Nations Universities Consortium of Small Island States   Sep 2020

Inventing the SolarSPELL Digital Library: Focus on Challenges, Successes, and Sustainability. Rob & Melani Walton Sustainability Solutions Service Virtual Sustainability Solutions Innovation Fair.
                                                                                                                                                    Jun 2020

L'Inclusion Numérique au Service de l'Insertion Professionnelle. Invited talk (in French) at Digital Festival Tahiti. Papeete, Tahiti   Oct 2019

SolarSPELL: A Localized Digital Library for Remote, Offline Locations. International Conference of Indigenous Archives, Libraries, and Museums. Temecula, CA   Oct 2019

Why Offline Technologies Provide Better Solutions for Global Education. Engineering for Change (E4C) Invited webinar   Jul 2019

We Don't Need No Stinkin' Internet: Taking it All Offline with SolarSPELL. CSPO 20th Anniversary Conference: Rightful Place of Science-2. Tempe, AZ   May 2019

Improving Educational Opportunities in Remote Pacific Islands—The SolarSPELL Digital Library. Invited talk at the East-West Center, Honolulu, HI   Mar 2019

The Offline Internet and SolarSPELL. Invited talk at the UNESCO Panel at World Library and
Information Congress 84th IFLA General Conference and Assembly, Kuala Lumpur, Malaysia
Aug 2018

The SolarSPELL Offline Digital Library. Paper presented at World Library and Information Congress
84th IFLA General Conference and Assembly, Kuala Lumpur, Malaysia   Aug 2018

The SolarSPELL digital library in the Pacific Islands. Invited talk at the University of the South Pacific,
Suva, Fiji   Dec 2017

Innovating and Iterating From the Field: Technology for Development. Invited talk at the Consortium for
Science, Policy, & Outcomes (CSPO) at Arizona State University, Washington DC   Nov 2017

SolarSPELL: The Solar Powered Educational Learning Library.
Invited talk at Peace Corps Headquarters, Washington DC   Nov 2017
Invited talk at State Department Cultural Affairs Unit, Washington DC   Nov 2017

Challenges and Opportunities for Delivering and Using Open Access Materials in Developing Countries.
14th Annual Open Education Conference, Anaheim, CA   Oct 2017

Developing Partner Networks to Improve Library Access. 30th Pacific Education Conference, Koror,
Palau   Jul 2017

Social Development and the SolarSPELL Digital Library. Invited Keynote Speaker at ICT Days
Conference and Invited Panel Member at co-located Internet Governance Forum Meeting. Port
Vila, Vanuatu   May, 2017

SolarSPELL: Solar Powered Educational Learning Library. Invited talk to MIT Program on Information
Science speaker series. Cambridge, MA   April 2017

Innovating and Iterating from the Field: The SolarSPELL Digital Library. Engineering Education
Seminar Series, ASU Polytechnic School   March 2017

Becoming a Practitioner-Scholar in Technology for Development. School for the Future of Innovation in
Society (SFIS) Winter School, ASU, Mesa AZ   Jan 2017

Addressing ICT-in-Education Challenges in Small Island Developing States (SIDS) as a Practitioner-
Scholar. Pacific Telecommunications Council (PTC) 39th Annual Conference, Honolulu HI
Jan 2017

Quick Impact: An on-campus "Build Day" to increase awareness, involvement, and understanding at the
global level. VentureWell OPEN 20th Annual conference, Portland OR   March 2016

Design, Develop, Deploy: The Solar Digital Library Kit for Remote Pacific Island Schools. Inaugural
Making and Doing Initiative. 4S: Society for Social Studies of Science Annual Conference,
Denver, CO   Nov 2015

PTC Community Grants Recipient Project Presentation: Solar Powered Digital Library Kits for Remote
Pacific Island Schools. Pacific Telecommunications Council (PTC) 38th Annual Conference,
Honolulu HI   Jan 2016

SPELL: Solar Powered Educational Learning Library.
    Open Lecture, Department of Computer and Systems Science, Stockholm Univ.   Dec 2015
    Cal Poly Kennedy Library Open Access Week 2015   Oct 2015
    Cal Poly Political Science Alumni Board Meeting, Cal Poly San Luis Obispo   Oct 2015
    OLPC SF Community Meeting, San Francisco State University, San Francisco   May 2015

Solar Powered Digital Library Kits for Pacific Island Schools: Hands-On Projects in Liberal Arts and
    Engineering Studies (LAES). More Than a Motto Conference, Poster Presentation. Cal Poly San
    Luis Obispo, CA   May 2015

Internet for Development: Interactions, Practices, and Lessons Learned. Spider Consultation for the
    World Bank Development Report 2016, Stockholm, Sweden   April 2015

Building Boundary-less Classrooms: A View From the Field—Our Micronesia Experience. Invited
    Keynote, Asian Development Bank ICT Week Conference, Manila, Philippines   Oct 2014

Emerging Markets: Top ICT4D Hardware Challenges.
    Invited Webinar. Engineering for Change (E4C).   Sept 2014
    IEEE Global Humanitarian Technology Conference, San Jose, CA   Oct 2014
    Pacific Telecommunications Council (PTC) 37th Annual Conference, Honolulu HI   Jan 2015

Student Creativity Inside and Outside the Classroom. Invited Panel. Infrastructures of Creativity
    Conference, Illinois Institute of Technology, Chicago IL   April 2014

Technology in Developing World Schools: Promising Possibilities and Potential Pitfalls. Invited Talk,
    California Polytechnic State University, San Luis Obispo, CA   April 2014

The Centrality of Electricity for Internet Uptake in Low-Income Countries. (Received Best Paper Award:
    Meheroo Jussawalla Research Paper Prize) Pacific Telecommunications Conference (PTC) 36th
    Annual Conference, Honolulu, HI   Jan 2014
    IEEE Global Humanitarian Technology Conference, San Jose, CA   Oct 2014

Teaching ICTD – Courses, Degree Programs, and Student Field Experiences
PISCES Pacific Offline Educational Server Demo
    Both: ICTD 2013 conference, Cape Town, South Africa   Dec 2013

Towards a greater openness – Opportunities and challenges in open online education and open access. E-
    Learning Africa Conference. Windhoek, Namibia   May 2013

Energy as an overlooked driver of ICT uptake across the developing world. International Studies
    Association 54th Annual Conference, San Francisco, CA   April 2013

PISCES Project: Pacific Island Schools, Connectivity, Education and Solar Project.
    Invited presentation at University of California, Berkeley, Center for Information Technology
    research in the Interest of Society (CITRIS) Research Exchange   March 2013
    Pacific Telecommunications Council (PTC) 35th Annual Conference, Honolulu   Jan 2013
    PacINET 10th Annual Conference of the Pacific Islands Internet Society.
    University of the South Pacific, Suva, Fiji   Nov 2012

Technology for Development: Why Training Trumps Technology. School of International Relations
        Director's Lecture on Theory and Practice, University of Southern California   Sept 2012

PISCES Project: Pacific Island Schools, Connectivity, Education and Solar Project.
        Invited presentation at Asian Development Bank   Sept 2012
        Invited presentation at University of Colorado, Boulder, ATLAS Institute   Sept 2012
        Invited presentation to Engineers Without Borders (EWB), IIT   Sept 2012

Learning Lessons and Moving Forward in ICT4D Projects. Spider ICT4D Seminar Series, University of
        Stockholm, Sweden   May 2012

Beyond the Design: Why the Ecosystem Matters in Technology for the Developing World. Invited Talk at
        the Institute of Design, Illinois Institute of Technology, Chicago IL   April 2012

The Prospects for Small Island Nations to Participate in the Global Information Age. International Studies
        Association 53rd Annual Conference, San Diego, CA   April 2012

Sharing Best Practices in ICTD Academic Programs. Fifth International Conference on Information and
        Communication Technologies and Development (ICTD2012), Atlanta, GA   March 2012

Utilizing Classroom Experiences to Make an Impact in the Developing World: IIT Empowering Haiti.
        National Collegiate Inventors and Innovators Association 16th Annual Open 2012 Conference,
        San Francisco, CA   March 2012

The Energy Issue is Slowing ICT4D in Island Nations – Will Renewable Energy be the Answer?
Public-Private Partnership Innovations in ICT: The Role for Academia.
Renewable Regional Energy, ICT, & Data Center Assessment: Focus on Five Pacific Island Nations
        All: Pacific Telecommunications Council (PTC) 34th Annual Conference, Honolulu   Jan 2012

Green Cloud Computing in Developing Regions: Moving Data and Processing Closer to the End User.
        International Telecommunications Union (ITU) WT11 Technical Symposium at ITU Telecom
        World, Geneva, Switzerland   Oct 2011

It Takes a Team: Solar PV Installation in Lascahobas, Haiti to Power 400+ OLPC XO Laptops. OLPC
        Community Summit, San Francisco   Oct 2011

One Laptop per Child, Solar-Based WiFi and the Complexities of ICT for Development. Invited Talk:
        ATLAS Institute, University of Colorado at Boulder. Available at:
        http://www.youtube.com/watch?v=YDSB0HlhDwA   Sept 2011

Technology for Development: No Shortcuts. TedxIIT conference. Available at:
        http://www.youtube.com/watch?v=FKTxUA0bCl0   March 2011

Solar-Powered Data Centers for Developing Regions: Small is Beautiful, Again. Pacific
        Telecommunications Council (PTC) 33rd Annual Conference, Honolulu, HI   Jan 2011

One Laptop per Child (OLPC) in Papua New Guinea and the Solomon Islands: Reflections from Four
        Site Visits. PTC 33rd Annual Conference, Honolulu, HI   Jan 2011

Technology, Teachers, and Training: Combining Theory with Macedonia's Experience. Information & Communications Technology for Development (ICTD), London, England   Dec 2010

Creating a Culture of use in ICT in Education and Development Projects: The Case of Macedonia. American Political Science Association Annual Meeting, Washington DC   Sept 2010

Implementing Policy at the Classroom Level: Macedonia's Experience with Training Teachers for a Technology-in-the-Schools Initiative. Midwest Political Science Association Annual Meeting, Chicago, IL   April 2010

Technology, Teachers, and Training: Combining Theory with Macedonia's Experience. International Studies Association 51st Annual Conference, New Orleans, LA   Feb 2010

Public-Private Partnership Innovations in ICT. Pacific Telecommunications Council 32nd Annual Conference, Honolulu, HI   Jan 2010

Promoting Social Inclusion through a Nation-Wide ICT-in-Education Endeavor: Macedonia Connects. Global Information Technology Management Association (GITMA) 10th Annual Conference, Mexico City, Mexico   June 2009

Creating a Culture of Use in ICT in Education and Development Projects: The Case of Macedonia. International Studies Association 50th Annual Convention, New York, NY   Feb 2009

Partnerships for Scalable and Sustainable ICT Projects: *EasySeva* in Sri Lanka. International Studies Association 50th Annual Convention, New York, NY   Feb 2009

Development Issues: Models of ICT Sustainability in Developing Regions. Measurement Considerations and Success Factors. Pacific Telecommunications Council (PTC) 31st Annual Conference, Honolulu, HI   Jan 2009

Technology in the Classroom in Conditions of Infrastructural and Capacity Constraints: Lessons from Uganda. ICIS 2008 1st Annual SIG GLOBDEV Workshop, Paris, France   Dec 2008

Promoting Social Inclusion through a Nation-Wide ICT-in-Education Endeavor: The Case of *Macedonia Connects*. ICIS 2008 Pre-Conference Development Workshop, Paris, France   Dec 2008

A Pilot Takes Off: Examining Sustainability and Scalability in the Context of a Sri Lankan Public-Private Partnership Telecenter Project ACIS 2008 Christchurch, New Zealand   Dec 2008

Promoting Mobile Phone Usage in Africa: the promise and challenge of Top-down/Bottom up Innovation. Global Mobility Roundtable 2008, Auckland, New Zealand   Nov 2008

Exploring the Role of Partnerships for Sustainable ICT Projects to Bridge the Digital Divide. American Political Science Association 104th Annual Meeting, Boston, MA   Aug 2008

The Challenges Facing African Governments in Adopting ICT Technologies: Focus on Education. International Studies Association 49th Annual Convention, San Francisco, CA   March 2008

Corporate Social Responsibility and Bridging the Digital Divide: Can Divergent Motivations Peacefully Co-Exist? ISA-West Annual Convention, San Francisco, CA   Sept 2007

Africa and the M-Society: The Challenges of Joining the Information Revolution. 6th Annual Global
        Mobility Roundtable, Los Angeles, CA   June 2007

Public Private Partnerships and the Prospects for Sustainable ICT projects in the Developing World. 6th
        Annual Global Mobility Roundtable, Los Angeles, CA   June 2007

Bridging the Digital Divide: Human Empowerment or Increased Market Share? How Can Divergent
        Motivations Peacefully Co-Exist? International Studies Association 48th Annual Convention,
        Chicago, IL   March 2007

Jumpstarting Growth with ICTs in the Developing World: Is Corporate Involvement the Panacea? 34th
        Research Conference on Communication, Information and Internet Policy, Telecommunication
        Policy Research Conference (TPRC). George Mason University, Arlington, VA   Sept 2006

Dividing the Oils: Corporations, Petroleum-Rich States, the Development Interface and the Prospects for
        Learning. The 2005 Middle East & Central Asia Politics, Economics and Society Conference,
        Salt Lake City, Utah   Oct 2005

Power Without Responsibility: Problematizing the Role of Multinational Corporations in Situations of
        Political Violence. Women in International Security (WIIS) Symposium, Washington D.C.
                                                      July 2004

TEACHING EXPERIENCE

Courses Taught, Arizona State University:

Global Technology and Development (GTD 501)   F 2017, F 2021 (in-person)
                                              F 2018, F 2019 (online)
                              F 2020 (ASU Sync—in-person & online)
        Introductory grad-level course introduces students to field and study of global development with
        an emphasis on the variable of technology and the major role it has played in the history of human
        development. Provides background and context for examining role of technology from economic
        and social development perspectives. Core course in M.S. in Global Technology ad Development
        program.

Humanitarian Engineering Projects I (EGR 307) [Standalone course]   F 2020, F 2021
        Team-based, challenge-focused lab course enabling students to work on a real-world project
        taking place "in the field." Course focuses on multiple projects.

Humanitarian Engineering Projects II (EGR 317) [Standalone course]   Sp 2021, Sp 2022
        Team-based, challenge-focused lab course enabling students to work on a real-world project
        taking place "in the field." Course focused on one project.

Engineering in Global Development (EGR 598)   F 2021, Sp 2022
        Team-based, challenge-focused lab course enabling students to work on a real-world project
        taking place "in the field." Course focuses on multiple projects. Graduate students are expected to
        serve as team leaders on teams that include undergrads.

Innovation in Action (FIS 494/GTD 598/HSD 598)   F 2019

Course offered multiple opportunities: graduate students had opportunity to mentor undergraduate teams in Humanitarian Engineering Course/GlobalRESOLVE course, or could choose individual or grad-level team project to which to continue.

Humanitarian Engineering Projects I or II (EGR 307 or 317) & GlobalResolve: Design for the Developing World Projects II (HON 394) [Combined Engineering & Honors Course]

Sp 2017, Sp 2018, Sp 2019
F 2018, F 2019

Team-based, challenge-focused / project-based lab course enabling students to work on a real-world project taking place "in the field." Multiple projects ran simultaneously; students chose one. Each project featured one mentor who met with teams on weekly basis. Lead instructor coordinated all teams and mentors. All students were given opportunity to travel to field to implement their work.

Technology & Society (FIS 201)   F 2016

Why we get the technologies that we do, and who decides. What innovation is, and why some innovations succeed while others fail. How technology affects society, and vice-versa. Core course in Future of Innovation in Society undergraduate program.

Courses Mentored, not for teaching credit, Arizona State University

Innovation in Action (GTD 598)   Su 2020, Su 2021

This course offers hands on experience building and curating content for SolarSPELL, a digital library that is being implemented around the world, providing access to information for resource-constrained communities that lack internet access. There will be a theoretical and conceptual underpinning as well that connects access to information to education, socioeconomic development, and to the Sustainable Development Goals. With some reading material and written assignments, most of the course will focus on localized, culturally relevant content creation and class discussions. Students specifically focused on curating content for offline Wikipedia for Schools.

Innovation Space/Innovation Space Studio (ENT 494/GRA 494/IND 494/SOS 494)   Sp 2020

Focused, single semester immersion course for students to experience a transdisciplinary team environment and become a leader of innovation in terms of skills and mindset. Multidisciplinary team-based class with industrial design, visual communication design, engineering, business, and sustainability majors. SolarSPELL was one of two featured projects.

Humanitarian Engineering Projects I or II (EGR 307 or 317) & GlobalResolve: Design for the Developing World Projects II (HON 394) [Combined Engineering & Honors Course]

Sp 2020
F 2016, F 2017

Team-based, challenge-focused / project-based lab course enabling students to work on a real-world project taking place "in the field." Multiple projects ran simultaneously; students chose one. Each project featured one mentor who met with teams on weekly basis. Lead instructor coordinated all teams and mentors. All students were given opportunity to travel to field to implement their work.

Courses Taught, California Polytechnic State University:

Technology & Public Policy (POLS 451)   F 2014, F 2015

Research Design (POLS 359)   F 2014, W 2015, S 2015, F 2015, S 2016

Regulatory & Economic Policy (POLS 550)   W 2015, W 2016

Global Synthesis in Liberal Arts and Engineering Studies (LAES 411)   S 2015, W 2016
    SPELL Solar Digital Library.
    Multidisciplinary team-based, project-based course focused on designing, developing, and deploying an
    offline solar-powered digital library for remote, rural Pacific Island schools without electricity or
    connectivity. Also built website loaded with open-access educational content specifically curated for the
    Pacific Islands. Project website: http://solarspell.org/ Library's open-access content website (mirror of
    offline version): http://pacificschoolserver.org/ Partnered with US Peace Corps in Vanuatu and Federated
    States of Micronesia for training and deployment of first 50 libraries.

Advanced Project-Based Learning in Science, Technology, and Society (ISLA 456)   S 2016

Courses Taught, **Illinois Institute of Technology**:

Technology for International Development   Fall 2012, 2013
    Examines the use of Information and Communication Technologies (ICTs) vis-à-vis global
    development efforts from a multidisciplinary social sciences perspective.

Fieldwork Methods   Spring 2013, 2014
    Real-World, Hands-on, Project-Based Qualitative Methods class open to all majors at IIT. In
    Spring 2014 students developed a baseline, mobile-phone friendly survey for evaluating schools'
    readiness to receive computers/technology. Used open-access data collection tool ODK Collect.
    Local partners in Micronesia implemented survey and collected data. In Spring 2013 students
    worked with partners in Chuuk, Federated States of Micronesia and developed (solar-powered)
    server pre-loaded with educational content for schools with computers but no Internet
    connectivity. Server content customized for Micronesia, while web-based interface allows for
    bring-your-own-device usability.

Entrepreneurial Interprofessionalization (EnPRO) Project   Spring 2012
    Solar-Powered-Computer-Lab-in-a-Box.
    Multidisciplinary team-based, project-based course focused on designing and bringing to market an
    innovative product: a Solar-Computer-Lab-in-a-Box: an all-in-one, turnkey, simplified direct current (DC)-
    only solution that includes 6 Intel Classmate laptops, Solar panels, charge controller, a WiFi Router, and
    comes pre-wired, in packaging that becomes the furniture/table for the lab. Class functions as a start-up and
    performs market research, creates website and utilizes social media, attracts sponsors and partners, writes a
    business plan, designs and builds product prototype, and deploys it in first developing world
    implementation. http://www.solarcubed.org/

InterProfessional (IPRO) Project   Fall 2010, Spring 2011, Fall 2011
    Improving the Primary Educational Experience in Haiti.
    Multidisciplinary team-based, project-based course focused on designing and deploying a replicable solar-
    powering solution for primary schools in Haiti. Led three team trips to Haiti, of which the first was a site
    survey visit (1/11). On the second trip (8/11), our team installed a 2.4 KW DC-only solar powering system
    at a primary school to charge up to 500 donated laptops, with funding from an IEEE Foundation grant. On
    the third trip (12/11), our team set up solar powered Internet connectivity and WiFi across the primary
    school campus, with funding from Internet Society Community Grant.

International Relations   Fall 2009, 2010, 2011 2013, Spring 2013

Global Political Economy   Spring 2010, 2011, 2014, Fall 2012

Promise and Problems of Science and Technology Policy   Spring 2010

Comparative Politics   Fall 2009

Global Political Economy in Paris (taking advantage of numerous site visits and guest
speakers from relevant organizations and institutions in the city)   Summer 2010

Courses Taught, **University of Southern California**:

Quantitative Analysis II (Econometrics course at Graduate Level), USC School of Policy,
Planning and Development. Lecturer.   Spring 2007

Teaching Assistant, Los Angeles and the American Dream, Department of Geography   Fall 2004

Teaching Assistant, Introduction to International Relations, School of IR   Spring 2002

RESEARCH EXPERIENCE

In-Country Fieldwork Research/Project Experience:
Comoros, Croatia, Federated States of Micronesia, Fiji, Guam, Haiti, Macedonia, Palau, Papua New
Guinea, Rwanda, Samoa, Senegal, Slovenia, Solomon Islands, South Sudan, Sri Lanka, Tonga,
Vanuatu

Visiting Research Associate, Institute for Communication Technology Management, Marshall
        School of Business, University of Southern California (USC)   2007-2014

Research Assistant, Pacific Council on International Policy, USC   2006

Research Assistant, USC, Center for Telecommunications Management   2005-2006

Research Fellow, Translator, (French, Dutch, Italian,) UN Global E-Government Survey and
Report, United Nations Center for E-Government, USC   2004-2008

ADDITIONAL EDUCATION, EXPERIENCE & PROFESSIONAL DEVELOPMENT

Arizona State University, Leadership Academy (Peer Leadership Academy Cohort 5)   2017-2018

Fordham University, Advanced Certificate in Emerging Markets and Political Risk Analysis   2002

Venice International University (Italy), Graduate Study Program in Economics and Finance   2001

Universiteit van Amsterdam, *Staatsexamen*: Dutch language diploma (grants permission to study
at the University level in Dutch in The Netherlands)   2000

United Nations, Geneva, Graduate Study Programme (30 students are admitted each summer)   2000

Université de Lille-Charles de Gaulle (France), *Diplôme D'Etudes Françaises* (*Deuxième Degré*):
French Language Diploma, Second Level (grants permission to study at the University level in

French)   1998

Université de Nice-Sophia Antipolis (France), *Diplôme D'Etudes Françaises* (*Premier Degré*):
    French Language Diploma, First Level   1997

House of Commons, London, Internship with MP Teresa Gorman   1995

PROFESSIONAL SERVICE

Board Member, Swedish Program for ICT in Developing Regions (SPIDER), funded by the Swedish
    International Development Agency, hosted at Stockholm University   2010-present

Personnel Committee, College of Global Futures, ASU   2021-2022

Walton Sustainability Solutions Chair Search Committee, ASU   2021

Faculty Advisor, Engineering World Health student chapter, ASU   2020-present

Faculty Advisor, SolarSPELL student club, ASU   2017-2019

SFIS Undergraduate Curriculum Committee, ASU   2016-present

SFIS Innovation in Global Development PhD Planning Committee, ASU   2017-2018

University Faculty Council Committee Member: Illinois Institute of Technology   2012-2014

Associate Chair (Interim), Department of Social Sciences, Illinois Institute of Technology   2011-2012

Curricular Development Committee, Lewis College at IIT: Develop curriculum and plan for new
    Undergraduate BS Degrees: Technology and Economic Development, Economic Policy   2012-2013

Undergraduate Studies Committee Member: Illinois Institute of Technology   2009-2011

Faculty Co-Advisor, Engineers Without Borders (EWB), Illinois Institute of Technology   2010-2014
Faculty Co-Advisor, Engineers for a Sustainable World (ESW), IIT   2012-2014
Fulbright Campus Interview and Evaluation Committee, IIT   2012-2014
Academic Honesty Committee, Social Sciences, IIT   2014

Secretary/Treasurer of Science, Technology, and Policy (STEP) Section, American Political Science
    Association   2011-2014

Executive Board Member, Information Technology & Politics Section (ITP), American Political Science
    Association   2010-2014

Executive Board Member, International Communication Section (ICOMM), International Studies
    Association   2009-2011

Journal Referee:

Journal of Political Science Education (2020-2021)
Information Technology for Development (2009-present)
Telecommunications Policy (2016-present)
Journal of Engineering Education (2019)
Journal of Engineering Studies (2017)
Journal of Ecotourism (2017)
Information Technologies and International Development (2004-2017)
Journal of Information Technology and Politics (2011)
Business and Politics (2011)
Information Systems Management (2010)
Manuscript Reviewer for Routledge (2010)
Review of Policy Research (2013)
Journal of Communication (2011)
Global Environmental Politics (2013)
International Journal of Electronic Business (2010)
Journal of Business Systems, Governance & Ethics (2008)

Conference Paper Referee:
Pacific Telecommunications Council Annual Conference (2008-2017)
Information Communication Technology and Management (ICTM) (2012)
International Federation for Information Processing Working Group 9.4: Social Implications of Computers in Developing Countries (2008-2010, 2018)
Hawaiian International Conference on System Sciences (HICSS) (2008)
Australasian Conference on Information Systems (2007)
Los Angeles Global Mobility Roundtable (2007)

Conference Planner, Conference Proceedings Editor:
Los Angeles Global Mobility Roundtable, 2007

Conference/Program Committee Member:
Global Mobility Roundtable, Cairo, Egypt, 2009
Australasian Conference on Information Systems, Christchurch, New Zealand, 2008
Information Communication Technology and Management, Wroclaw, Poland, 2012

Senior Program Committee Member/Referee:
ICTD 2015 (Information & Communication Technologies and Development)
ICTD 2016

Grant Reviewer:
Swiss National Science Foundation SNSF, 2019
SSHRC Social Sciences and Humanities Research Council of Canada, 2016
University of Gothenburg Centres for Global Social Challenges (UGOT Challenges), 2015
Volkswagen Foundation African Initiative: Knowledge for Tomorrow: Cooperative Research Projects in Sub-Saharan Africa, 2014

STUDENT AND STAFF MENTORING (SOLARSPELL)

SolarSPELL Staff

Zeinab Serhan (ASU GTD MS grad 2020) hired as full-time Information Technology Advisor July 2020 – present
Courtney Finkbeiner hired as full-time Student Engagement Coordinator May 2020 – present
Coreen Walsh hired as full-time Project Manager Mar 2020 – present
Stephanie Petersen (ASU M.Ed. grad 2012, ASU BA grad 2007) hired as full-time Project Manager Mar 2020 – present
Sara Jordan (ASU BA grad 2016) hired as full-time library specialist: Sep 2018 – present
Jude Schroder (ASU BA grad 2020) hired as part-time Videographer July 2020 – Jun 2021
Katarina Thorlin (ASU BA grad 2016) hired as full-time Library Specialist June 2020 – Mar 2021
Chloe Scott (ASU BA grad 2018) full-time intern Jan – May 2018; hired as full-time management intern: July 2018 – Mar 2020
Kristen Linzy (ASU GTD MS grad 2017, ASU BA grad 2015) hired as full time Project Coordinator: April 2018 – Dec 2019

SolarSPELL Student Workers
Pavithra Devi Rajkumar (ASU Information Tech MA 2023) software developer: Spring 2022-present
Matthew Jurenka (ASU Computer Science undergrad 2023) software developer: Fall 2019 – Fall 2021
Lee (Elizabeth) Chiffelle (ASU Astrophysics undergrad 2022) special projects: Nov 2019 – May 2021
Kaitlyn Matthews (ASU Cronkite School Journalism undergrad 2022) marketing and social media: Fall 2019
Phuc Tran (ASU HIDA film studies undergrad 2020) student videographer: Fall 2019-Fall 2021
Michael Santos (ASU HIDA film studies undergrad 2020) student videographer: Fall 2019
Vipanchi Chacham (ASU Software Eng. MS 2020) web designer: Fall 2019
Tharun Kumar (ASU Computer Science MS 2020) meta-data specialist: June 2019-Dec 2019
Jude Schroder (ASU PolSci undergrad 2020) student videographer: Apr 2019-May 2020
Bailey de la Torre (ASU undergrad 2019) full time grant and donor relations: May – Aug 2019
Sai Manideep Cheekatimalla (ASU MS grad 2019) meta-data specialist: Jan 2019 – May 2019
Vignesh Mahesh (ASU Electrical Engineering grad 2020) charge controller and battery redesign: Spring 2019-Spring 2020

Coverdell Fellows (Returned Peace Corps Volunteers)
Master's Students Serving as Interns on SolarSPELL Initiative
Libbie Farrell (ASU Global Technology and Development MS 2023), Monitoring and Evaluation Planning and Mapping, Fall 2021-Spring 2022
Mariner Cheney (ASU WP Carey Business Administration MBA 2023), Monitoring and Evaluation Planning and Mapping, Fall 2021-Spring 2022
Colby Howell (ASU Environmental and Resource Management MS 2022) Agricultural Library Content Curation Team Lead, Spring 2021-Spring 2022
Elizabeth (Liz) Wolfe (ASU WP Carey Business Administration MBA 2023), Monitoring and Evaluation Planning and Mapping, Fall 2021
Brooke Bettis (ASU WP Carey Business Administration MBA 2022), In-Field Training and Offline Training Course Creation, Fall 2020-Spring 2021
Jared Sidman (ASU Global Technology & Development MS 2021) In-Field Training and Offline Training Course Creation, Fall 2021-Spring 2021

SolarSPELL Student Interns (PT = Part Time; FT = Full Time)
Allison Hoops (ASU Global Technology and Development MS 2023), PT Monitoring and Evaluation Planning and Mapping Intern, Fall 2021-Spring 2022
Chukwuzulum Nwizu (ASU Industrial Design Undergrad 2022) PT Industrial Design Intern, Fall 2021

David Yao (ASU Data Science Undergrad 2022) PT Metadata Intern, Fall 2021

Claudette Kinds (ASU Exchange Student from University of Groningen, NL, International Business Administration Bachelor's) PT Supply Chain Intern, Fall 2021

Aishwarya Prabha Ramakrishnan (ASU Computer Software Engineering MS 2022) PT User Experience Intern, Fall 2021

Madison Fletcher (ASU Sustainability BA 2022) PT Content Curation (Sustainability focus) Intern, Fall 2021

Lan Ling (ASU Interdisciplinary Studies BA 2021) PT Metadata Intern, Fall 2021

Stephen Paul Guertler (University of Arizona Masters of Library and Information Sciences MLIS 2022) PT Content Curation Intern

Sue Ann Lau (San Jose State University Masters of Library and Information Sciences MLIS 2021) PT MLIS Digital Collections Intern, Fall 2021

Zain Jakwani (ASU Computer Science BS 2023) PT Web Developer Intern, Fall 2021

Ashley Reise (San Jose State University Masters of Library and Information Sciences MLIS 2021) PT MLIS Digital Collections Intern, Fall 2021

Sritharini Radhakrishnan (ASU Electrical Engineering BS 2023) PT Geospatial Analysis Intern, Fall 2021

Juan Garcia (San Jose State University Masters of Library and Information Sciences MLIS 2021) PT MLIS Digital Collections Intern, Fall 2021

Alexandra Justesen (ASU Sustainability BA 2022) PT Content Curation (Sustainability focus) Intern, Fall 2021

Jaydan Fleming (ASU Graphic Information Technology BA 2022) PT Web Development Intern, Fall 2021

Eric Magoffin (ASU Software Engineering MS 2021) PT Software Solutions Intern Summer 2021

Lubna Alsaka (ASU Global Technology and Development MS 2021) PT Content Curation (Wikipedia for Schools focus) Summer 2021

Nebeyu Daniel Menkir (ASU Geographic Information Systems BS 2021) PT Content Curation Intern (Ethiopia specialization) Spring 2021, Summer 2021

Stephanie Duran (San Jose State University Masters of Library and Information Science 2023) PT MLIS Digital Collections Intern, Spring 2021, Summer 2021, Fall 2021

Rithikaa Madhavan (ASU Business Data Analytics BS 2022) PT Metadata Intern, Spring 2021, Summer 2021, Fall 2021

Hyokyung Hwang (San Jose State University Masters of Library and Information Science 2023) PT MLIS Digital Collections Intern, Spring 2021, Summer 2021

Daisha Bahadoor (University of Denver Masters of Library and Information Sciences 2022) PT MLIS Digital Collections Intern, Summer 2021

Keenan Carter (ASU Film Studies BA 2023) PT Videography Intern, Summer 2021, Fall 2021

Kayla Pinson (North Carolina Central University Masters of Library & Information Sciences MS 2021) PT MLIS Digital Collections Intern, Summer 2021

Lauryn Armstrong (ASU Graphic Information Technology BA 2024) PT Graphic Design Intern, Summer 2021

Suzan Omar Elmajali (ASU Computer Science MS 2021) PT Usage Data Analysis Tool Software Intern, Summer 2021, Fall 2021

Taliah Rodriquez (ASU Secondary Education BA 2022) PT Educational Content and Metadata Management, Summer 2021

Rishik Kolli (ASU Computer Science BS 2024) PT Metadata Intern, Summer 2021

Teresa Hernandez (ASU Technical Communication BA 2021) PT User Experience Intern, Summer 2021, Fall 2021

Spandana Bhattacharya (ASU Computer Science MS 2022) PT Usage Data Analysis Tool Software Intern, Summer 2021

Pavithra Devi Rajkumar (ASU Information Tech MA 2023) PT back-end software developer: Content Curation Web App Intern, Summer 2021, Fall 2021

Daniel Lu (ASU Astrophysics BS 2022) PT Circuit Board Design Intern, Summer 2021, Fall 2021, Spring 2022

Melia Jean Baptiste (University of Denver Masters of Library & Information Science 2022) PT MLIS Digital Collections Intern, Summer 2021

Haniyah Williams (ASU Graphic Design BA 2024) PT Graphic Design Intern, Summer 2021, Fall 2021, Spring 2022

Kavya Venkatraman (ASU Biological Sciences BS 2023) PT content curation intern, Summer 2021

Rishabh Sanjay Kumar (ASU Computer Science MS 2022) PT Back End Software Development Intern, Summer 2021

Jonathan Zhao (ASU Computer Science BS 2024) PT Front End Software Development Intern, Summer 2021

Candice Holland (ASU Nonprofit Leadership and Management BA 2021) PT Content Curation Intern, Spring 2021

Blanca Garcia (ASU Applied Computing Undergrad 2021) PT Data Science Intern, Spring 2021

Frank Manjaly (ASU Global Technology and Development MS 2021) PT Wikipedia for Schools Intern, Spring 2021

Lubna Alsaka (ASU Global Technology and Development MS 2021) PT Wikipedia for Schools Intern, Spring 2021

Sneha Pujani (Thunderbird Masters of Global Affairs 2021) PT Wikipedia for Schools Intern, Spring 2021

Gabriella Martinez (ASU Digital Audience Strategy Master's 2022) PT Social Media Intern, Spring 2021

Meghan Dilworth (ASU Geography Undergrad 2022) PT Content Curation Intern, Spring 2021

Bhavikha Rathod (ASU Graphic Information Technology Undergrad 2022) PT Graphic Design Intern, Spring 2021

Ninette Gonzalez (ASU Global Technology and Development MS 2022) PT Wikipedia for Schools Intern, Spring 2021

Alexandria Sweers (ASU Learning Design and Technology Master's 2021) PT Moodle Module Refinement Intern, Spring 2021

Amanda Rodriguez (ASU Global Technology & Development MS 2021) PT Agriculture content curation intern/fellow Fall 2020, Spring 2021, Summer 2021

Marybeth Bonner (ASU Sustainability & Supply Chain Management undergrad 2023) PT agriculture content curation intern Fall 2020

Mary Haddad (ASU Earth & Environmental Studies & Biological Sciences undergrad 2022) PT agriculture content curation intern Fall 2020 – Spring 2022

Samantha Sokol (ASU Electrical Engineering undergrad 2022) PT SolarSPELL testing intern Fall 2020

Karime Arreguin (ASU Graphic Information Technology undergrad 2021) PT user interface/user experience intern Fall 2020-Sp 2021

Kate Ross (Brandeis University International & Global Studies undergrad 2021) PT content curation intern Fall 2020-Spring 2021

Tu'ufuli Reupenny (ASU Interdisciplinary Studies undergrad 2020) PT metadata intern Fall 2020-Spring 2021

Devin Robbins (ASU Sustainability undergrad 2021) PT content curation intern Fall 2020

Eleni Birhane (ASU Global Technology & Development MS 2021) PT content curation intern Fall 2020 – Spring 2021

Kara Gardner (ASU Biology & Society undergrad 2021) PT content curation intern Fall 2020

Wen Wendt (ASU Political Science undergrad 2021) PT content curation intern Fall 2020

Mia Czarnecki (ASU Sustainability & Spanish undergrad 2021) PT content curation intern Fall 2020

Brittany Carter (ASU Web Development undergrad 2021) PT User Interface/User Experience intern Fall 2020

Samantha Cayo (San Jose State University Master's Library & Information Science 2021) PT meta-data specialist intern Fall 2020 – Spring 2021

Zane Encinas (ASU Philosophy, English, Sustainability undergrad 2022) PT intern content curation Fall 2020

Jason Ormsby (ASU Computer Science undergrad 2021) PT intern computer science special projects Fall 2020-Sp 2021

Winny Scopas (Abilene Christian University undergrad 2023) FT content curation intern Summer 2020

Gilgal Ansah (ASU Biomedical Engineering Master's 2021) FT content curation intern Summer 2020

Camden Paillot (ASU Sustainability undergrad 2020) FT content curation intern Summer 2020

Colin Marvin (ASU Geography undergrad 2021) FT content curation intern Summer 2020

Claudia Fragoso (ASU Biomedical Engineering Master's 2021) FT content curation intern Summer 2020

Shannon Quigley (ASU Geography undergrad 2021) FT content curation intern Summer 2020

Grace Umerani Faustino (University of Rochester Public Health undergrad 2021) FT content curation intern Summer 2020, Summer 2021

Priya Borah (ASU Biomedical Engineering undergrad 2021) FT content curation intern Summer 2020, PT Offline Training Course Creation Intern Summer 2021

Karla Cosio (ASU Electrical Engineering undergrad 2022) FT content curation intern Summer 2020

Ashley Tse (ASU Biomedical Engineering undergrad 2023) FT content curation intern Summer 2020, PT Offline Training Course Creation Intern Summer 2021

Tyler Miller (ASU Art History & American Indian Studies undergrad 2021) FT content curation intern Summer 2020

Camryn Lizik (ASU Public Health undergrad 2020) PT meta-data intern Spring 2020, Summer 2020, Fall 2020, Spring 2021

Melissa Kim (ASU undergrad) PT meta-data intern Fall 2019 – Spring 2020

Samantha Whitman (ASU Human & Social Dimensions of Science & Technology PhD 2021) Grad advisor to undergraduate teams working on SolarSPELL Health library Fall 2019 – Spring 2020

Madisyn Goodballet (ASU undergrad) FT metadata fellow Summer 2019-Spring 2020

Matthew Jurenka (ASU Computer Science undergrad 2023) PT web development intern Fall 2019

Alexandra Pippett (ASU undergrad) FT teacher lesson plan development intern Spring 2019- PT Fall 2019

Brooke Nelson (ASU undergrad) PT content curation and special projects intern Fall 2018-Summer 2019

Alma Varon (ASU undergrad) FT content curation intern: Summer 2019

Hailey Campbell (ASU undergrad) FT content curation intern: Summer 2019

Vanessa Villalobos (ASU undergrad) FT content curation intern: Summer 2019

Justyn Zeider (ASU undergrad) FT content curation intern: Summer 2019

Bailey De La Torre (ASU Nonprofit Leadership & Management undergrad 2019) FT Marketing & Social Media intern Spring – Summer 2019

Ryan Kirmis (ASU Engineering undergrad 2019) FT software intern Summer 2018

Kusum Ijari (ASU Computer Science Master's 2019) FT user experience/user interface intern Summer 2018

Ruth Oliver (ASU undergrad 2020) FT content curation intern Summer 2018

Ricardo Ornelas-Montes (ASU undergrad 2019) FT content curation intern Summer 2018

Jeremy Seidner (ASU undergrad 2019) FT content curation intern Summer 2018

Maddie Arnold (ASU Future of Innovation in Society & Journalism undergrad 2020) FT content curation intern Summer 2018

Adriana Castillo (ASU Political Science undergrad 2020) FT content curation intern Summer 2018

Victor Ruiz-Aviles (ASU grad student 2020) FT content curation intern Summer 2018

Vianca Rodriguez (ASU grad student 2020) FT content curation intern Summer 2018

Erika Karner (ASU Nonprofit Leadership & Management undergrad 2019) FT Fundraising intern Spring 2019

Chloe Scott (ASU Nonprofit Leadership & Management undergrad 2018) FT SolarSPELL undergrad Spring 2018

STUDENT MENTORING / ADVISING

Arizona State University Student Advising

Human and Social Dimensions (HSD) of Science and Technology PhD Program
Martin Perez Commisso, Fall 2017 – Summer 2020

Global Technology for Development Master's Applied Project/Capstone Advisor
2022: Rashad Al-Khmisy
2021: Lubna Alsaka: Exploring Arabic Open Educational Resources (OER) Initiatives and their Openness for Offline Usage (Collaborative Applied Project with Osamah Naji) Co-Advised with Dr. Mary Jane Parmentier
2021: Osamah Naji: Exploring Arabic Open Educational Resources (OER) Initiatives and their Openness for Offline Usage (Collaborative Applied Project with Lubna Alsaka) Co-Advised with Dr. Mary Jane Parmentier
2020-2021: Eleni Birhane: SolarSPELL Training: Importance of Providing Appropriate and Localized Information to Users
2020-2021: Johanna Gilbert Vazzana: The Role of Cybersecurity in International Development
2019-2020: Zeinab Serhan: SolarSPELL Usability: Studying the User Experience to inform Future Improvements
2018: Kristen Linzy: Reporting and Standardizing In-Field Impact Assessment of the SolarSPELL Digital Library
2018: Lyndsay Booth: Examining the role of information and communication technologies (ICTs) vis-à-vis beneficiary participation in development projects

Master's Degree Advisor/Committee Member
2021: Courtney Raymond: Improving Maternal Health Outcomes in Developing and Underprivileged Countries through Women's Empowerment and Increased Spousal Involvement. MS in Biology.

Global Technology for Development: Research Assistant
Jared Sidman, Research Assistant, Fall 2019 – Spring 2020; Fall 2020 – Spring 2021

Barrett Honors Thesis Advisor
2020: Courtney Raymond: Bringing Evidence Based Practice to Developing and Underprivileged Countries: A Focus on Women's Health and Midwifery
2019-2020: Emily Sherman: Distribution of Entrepreneurial Education to Underdeveloped Communities to Foster Economic Growth
2018-2020: Madison Arnold: A Framework for Designing Primary Education Technology for Resource Constrained Regions [Maddie was named SFIS Fall 2020 Outstanding Undergraduate Student]
2017-2018: Bethany Thielen: Redesigning the SolarSPELL content library website, incorporating user experience design principles
2017: Amanda Taylor: Putting a Ding in the Universe: Art Curriculum Development for the SolarSPELL

Honors (Non-Thesis) Research Projects/Contracts
    Spring 2021: Karla Cosio; Ashley Tse

Fall 2020: Karla Cosio; Ashley Tse
Fall 2019, Spring 2020: Trevor Marske
Fall 2016: Arizona Baskin, Cyntha Weiringa

California Polytechnic State University Advising
Senior Projects
  2016: Ginger Jacobs: Incorporating context into Project-Based, Interdisciplinary, International Service Learning Courses
  2015: Kevin Schettler: The societal effects of copyright protection for distribution, publishing, and profit

Liberal Arts and Engineering Studies (LAES) Projects
  2016: Christopher Carroux & Bhaumik Kotecha: Improving the Back-end and User Interface on the SolarSPELL website
  2015: Kevin Gong: Evaluating in-field feedback on SolarSPELL

Illinois Institute of Technology Advising
Summer Research Interns
  2014: Cara Karter: Climate Change in the Pacific: Creation and Implementation of a Needs Assessment and Baseline Survey in Chuuk, FSM
  2012: Simon Brauer: Documenting and assessing the IIT Empowering Haiti project and discussing the implications for Information and Communication Technologies for Development (ICT4D).

External Advising
Stockholm University
  PhD Examinations: Elly Gamukama, Stockholm University Department of Computer Science (Analytical Modeling of Internet Provision and Usage in Context of Development through a Utility Based Framework), 2015

PROFESSIONAL ASSOCIATION MEMBERSHIPS

IEEE Senior Member	2019-present
IEEE Member	2009-2019
IEEE Society on the Social Implications of Technology	2016-present
Internet Society (ISOC)	2009-present
Pacific Telecommunications Council (PTC)	2010-2017
Academy of Management	2007-2009
American Political Science Association (APSA)	2008-2014
International Studies Association (ISA)	2006-2014
Society for the Social Studies of Science (4S)	2015-2016

LANGUAGES/OTHER TRAINING

English (primary language), French (proficient), Dutch (proficient), Italian (intermediate)
Statistical Software: SPSS

TEACHING & RESEARCH INTERESTS

Information and Communications Technology (ICT); International Development; ICT4D; Experiential Learning; Innovation and Entrepreneurship; Team-Based, Project-Based Learning; Quality of Life; Public Policy; Natural Resources / Environment; Renewable Energy/Solar Energy; Public-Private Partnerships; Technology in Education; Telecommunications; International Relations; International Political Economy

DIGITAL DOCUMENTATION OF PROJECTS AND RELATED WORK

SolarSPELL Solar Digital Library All-in-one Kit Project website: http://solarspell.org/
Example of library's entirely open-access content can be found at: http://pacificschoolserver.org/

ICT4D Views from the Field. Personal research blog to capture, record, and share the author's experiences and thoughts regarding information and communications technology (ICT) being used for development purposes (ICT4D) around the world. Available at: http://ict4dviewsfromthefield.wordpress.com/

TED: Ideas worth Spreading: Technology for Development: No Shortcuts. TEDxIIT talk by Laura Hosman, March 22, 2011. Available at: http://www.youtube.com/watch?v=FKTxUA0bCl0

SolarCubed: Project comprising Solar-Computer-Lab-in-a-Box, Teacher Training Syllabus, and Offline Educational Content Server. Project website. Available at: http://www.solarcubed.org/

PISCES Project*:* Pacific Island Schools Connectivity, Education, and Solar Project. Project website. Available at: http://www.piscespacific.org

MEDIA COVERAGE & RELATED PUBLIC COMMUNICATIONS

ASU News: Volunteers help SolarSPELL get back in action. April 6, 2021. Available at: https://news.asu.edu/20210406-sun-devil-life-volunteers-help-solarspell-get-back-action

The State Press: SolarSPELL Brought Virtual Learning Resources to South Sudan. Feb 14, 2021. Available at: https://www.statepress.com/article/2021/02/spbiztech-solarspell-distributes-textbooks-south-sudan-covid

PBS' Arizona Horizon / Catalyst: SolarSPELL. January 15, 2021. Available at: https://azpbs.org/horizon/2021/01/catalyst-solar-spell/

Forbes: What a Solar-Powered Portable Library Looks Like. Dec 30, 2020. Available at: https://www.forbes.com/sites/christinero/2021/12/30/what-a-solar-powered-portable-library-looks-like/?sh=4480466c26ae

Versatilist: Podcast featuring interview on background and story of SolarSPELL. August 16, 2020. Available at: https://www.podomatic.com/podcasts/versatilist/episodes/2020-08-16T12_24_17-07_00

ASU Now: ASU, Peace Corps agreement to expand SolarSPELL Learning platform's reach. July 10, 2020. Available at: https://asunow.asu.edu/20200710-global-engagement-asu-peace-corps-agreement-expand-solarspell-learning-platforms-reach

The State Press: SolarSPELL will bring educational content to a South Sudanese nursing school. April 16, 2020. Available at: https://www.statepress.com/article/2020/04/spbiztech-solarspell-bringing-educational-content-to-south-sudanese-nursing-school

The State Press: ASU to help refugees using SolarSPELL technology in Ethiopia. Feb 6, 2020. Available at: https://www.statepress.com/article/2020/02/spbiztech-asu-to-host-community-education-alongside-humanitarian-support-in-ethiopia

ASU Now: ASU professor's solar-powered library is transforming global education. July 25, 2019. Available at: https://asunow.asu.edu/2019072-global-engagement-asu-professors-solar-powered-library-transforming-global-education

ASU Now: Refugees in Uganda learn agribusiness through online initiative. June 6, 2019. Available at: https://asunow.asu.edu/20190605-global-engagement-refugees-uganda-learning-agribusiness-through-online-initiative

ASU Now: ASU students developing off-grid tech to help small farms build resilience to climate change. March 18, 2019. Available at: https://asunow.asu.edu/20190318-solutions-asu-students-develop-off-grid-tech-help-small-farms-build-resilience-climate-change

ThinkTech Hawaii: Interviewed for live broadcast on Community Matters show about SolarSPELL in the Pacific. March 8, 2019. Available at: https://thinktechhawaii.com/solarspell-in-the-pacificcommunity-matters/

Acccrn.net: Learning Climate Change through a Solar Powered Library. Jan 18, 2018. Available at https://www.acccrn.net/blog/learning-climate-change-through-solar-powered-library

Phoenix Business Journal: ASU project puts educational learning libraries where internet is scarce. Sep 17, 2017. Available at https://www.bizjournals.com/phoenix/news/2017/09/17/asu-project-puts-educational-learning-libraries-in.html#i2

ASU Now: ASU Professor Wins PLuS Alliance Prize for SolarSPELL Innovation. Sep 3, 2017. Available at https://asunow.asu.edu/20170903-global-engagement-asu-professor-wins-plus-alliance-prize-solarspell-innovation

ABC15 Arizona News: Solar Powered Digital Libraries Developed at ASU Being Used Worldwide. Aug 7, 2017. Available at http://www.abc15.com/news/region-southeast-valley/tempe/solar-powered-digital-libraries-developed-at-asu-being-used-worldwide

SparkDialog Podcast: Educational Hotspots for Children of the Developing World. Featured Expert. Apr 11, 2017. Available at http://sparkdialog.com/educational_hotspots_developing_world/

Future Out Loud Podcast: SolarSPELL. Featured Expert. Feb 13, 2017. Available at https://soundcloud.com/user-723097380

ASU Now: ASU Delivers Digital Libraries to Tonga. Dec. 6, 2016. https://asunow.asu.edu/20161206-asu-delivers-digital-libraries-tonga

ASU Now: No Internet, No Power, No Problem: ASU solar library empowers schools abroad. Sept. 12, 2016. https://asunow.asu.edu/20160912-global-engagement-no-internet-no-power-no-problem-asu-solar-library-empowers-schools-abroad

The State Press: SolarSPELL team aims to spread education in developing countries. Sept. 18, 2016. Available at http://www.statepress.com/article/2016/09/spscience-engineering-solarspell-asu-lab-digital-library

Voice of America: Solar Powered Library Helps Remote Students. March 23, 2016. Available at http://learningenglish.voanews.com/content/solar-powered-library-helps-remote-students/3240836.html

BBC World Service Program *Click*: Gareth Mitchell interviews Laura Hosman about SolarSPELL Digital Libraries project for Vanuatu and Micronesia. July 7, 2015. https://www.youtube.com/watch?v=a2zr2dQBlSQ

Voice of America. TECHtonics blog: Wi-Fi Solutions Fill Basic Gaps for Developing World. Interviewed for article, Nov 29, 2013. http://blogs.voanews.com/techtonics/2013/11/29/wi-fi-solutions-fill-basic-gaps-for-developing-world/

YouTube: Connecting the Chuuk Women's Council. Six-minute video highlighting the establishment of a computer lab at the Chuuk Women's Council to improve employment and communications opportunities for women across Chuuk State, FSM. Sep 28, 2013. http://www.youtube.com/watch?v=g-o1KgES9W4

SciDev.Net. East Africa: Focus On Private Sector - Making ICT Partnerships Work. Article based on interview, Aug 15, 2013. http://allafrica.com/stories/201308150924.html?viewall=1

Engineering for Change (E4C). Solar WiFi Links Micronesian Islands. News article, Sept 29, 2012. https://www.engineeringforchange.org/news/2012/09/29/solar_wifi_links_micronesian_islands.html

Renewable Energy World. Rural Island Power: Solar Computer Lab and Long-distance WiFi Installed at Remote School. Blog Post. August 31, 2012. Available at: http://www.renewableenergyworld.com/rea/blog/post/2012/08/solar-computer-lab-in-a-box-and-solar-long-distance-wifi-set-up-at-rural-island-school-in-udot-chuuk-fsm

Renewable Energy World. Workshop on Solar powered long-distance WiFi at University of Guam part of PISCES Project. Blog Post. August 19, 2012. Available at: http://www.renewableenergyworld.com/rea/blog/post/2012/08/workshop-on-solar-powered-long-distance-wifi-at-university-of-guam-part-of-pisces-project

Carnegie Council for Ethics in International Affairs. Technology for Development: Why Training Trumps Technology. Article, Invited Post, August 13, 2012. Available at: http://www.carnegiecouncil.org/publications/ethics_online/0072.html

Pacific News Center / ABC7 Guam News. PISCES Project Provides Solar Powered WiFi to Remote Islands. Video. Posted August 2, 2012. Available at: http://pacificnewscenter.com/index.php?option=com_content&view=article&id=26021:video-

pisces-project-provides-solar-powered-wifi-to-remote-islands&catid=45:guam-news&Itemid=156

The Institute: The IEEE News Source: Keeping Laptops Alive in Haiti: IEEE member and her students help build a solar-powered charging station. *Article*, April 20, 2012. Available at: http://theinstitute.ieee.org/benefits/humanitarian-efforts/keeping-laptops-alive-in-haiti

The Institute: The IEEE News Source. A Well-Planted Seed: IEEE Foundation grant enables technology for development project to grow. Article, Invited post, April 20, 2012. Available at: http://theinstitute.ieee.org/ieee-roundup/opinions/ieee-roundup/a-wellplanted-seed

Molex Innovators Series: a Molex-sponsored and produced video series that follows college students and companies that are improving the world through technological innovations.
Episode 1: IIT Empowering Haiti. Feb 27 2012. Available at
http://www.youtube.com/watch?v=4aUCP8379XY
Episode 2: IIT Empowering Haiti II. Published Mar 14, 2012. Available at
http://www.youtube.com/watch?v=7t_-m6mNS8M
Episode 3: IIT Bringing the Internet. Published March 26, 2012. Available at
http://www.youtube.com/watch?v=vFLtTukUKK4

Boulder Daily Camera: CU-Boulder students to get involved with Solar-Powered Wi-Fi Project in Haiti. Article, September 24, 2011. Available at: http://www.dailycamera.com/cu-news/ci_18970081

Chicago Tribune: IIT students power up children's laptops in Haiti. Article, September 14, 2011: Available at: http://www.chicagotribune.com/news/local/ct-x-c-iit-haiti-project-0914-20110914,0,7691828,full.story

Youtube: Two-minute brief video overview of Solar Powering Installation in Lascahobas, Haiti, August, 2011: http://www.youtube.com/watch?v=jCo7cGOkV0

Youtube: Twelve-minute video explaining all major aspects of Solar Powering Installation in Lascahobas, Haiti, August, 2011: http://www.youtube.com/watch?v=hrQSjS9GYg0

Chicago Tribune: IIT class designing solar chargers for Haiti's schools. Article, April 13, 2011: Available at: http://articles.chicagotribune.com/2011-04-13/news/ct-x-c-iit-helps-haiti-20110413_1_laptops-iit-class-electricity

Engineering for Change: A plan in need of a donor: Solar laptop charging stations for Haitian schools. (E4C) article, April 1, 2011: Available at: https://www.engineeringforchange.org/news/2011/04/01/a_plan_in_need_of_a_donor_solar_laptop_charging_stations_for_haitian_schools.html